US ERA ARCHIVE DOCUMENT

EFFICACY EVALUATION AND TECHNICAL MANAGEMENT SECTION

EFFICACY REVIEW-I

Antimicrobial Program Branch

IN 07-00-00	001 10/31/00
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Reviewed By <u>Srinivas Gowda</u>	Date10/31/88
EPA Reg. No. or File Symbol	777-66
EPA Petition or EUP No	None
Date Division Received	07-05-88
Type Product(s):	
MRID No(s)	406636-01
Product Mgr. No.	31 (Lee)
Product Name(s) Lysol Brand Disin	fectant Direct Multi-Purpose™Cleaner
Company Name (s) Lehn & Fink Produ	
Submission Purpose Amendment t	
) with efficacy data and labeling
	Ready-to-use liquid
CHEMICAL A LOLMALAGE	
Active Ingredient (s):	*
Alkyl (67% Cl2, 25% Cl4, 7% Cl6, 1% Dimethyl benzyl ammonium chlorides.	C8-C10-C18)
Alkyl (50% Cl4, 40% Cl2, 10% Cl6) Dimethyl benzyl ammonium chlorides.	0.0

200.00 Introduction

200.1 Use (s)

Refer to the most recently accepted labeling dated 02-14-86. Also, proposed labels are attached.

200.2 Current Submission

The current submission is a proposed amendment to add virucidal claims for the product as a disinfectant against HIV-1 (AIDS virus) with supporting efficacy data and revised labelings.

200.3 Previously Accepted Virucidal Claims: The last accepted label bears virucidal claims for the product against Influenza A2/Japan in the presence of moderate amount of organic soil (5% blood serum) when used undiluted for a contact time of 10 minutes at room temperature (no-reuse).

201.0 Data Summary

201.1 Brief Description of Test (MRID 406636-01).

"Virucidal Efficacy of Direct Multipurpose Cleaner" Project No. 6470 by George C. Lavelle, Southern Research Institute, 2000 Ninth Avenue South, P.O. Box 55305, Birmingaham, Alabama, 35255, dated 04-21-88.

201.2 Test Summary: -

- a. Method: EPA Product Performance Guidelines and the specifics in the SRI HIV test protocol approved by EE & TMS (Efficacy), APB, RD, dated 05-23-88 (EPA letter dated 05-26-88 & 08-03-88).
- b. Test Virus: Human immunodeficiency virus Type 1 (HTLV-IIIRF).
- c. Virus Inoculum & Drying Procedure: Two-tenths ml of virus pool in RPMI-1640, containing 10% heat-inactivated fetal bovine serum, was dried on the bottom of glass petri dishes (28 cm² area) at 23°C until visibly dry (approx. 45 minutes), then incubated at 35-37°C in a dry-air oven for an additional 30 minutes.
- d. Test Procedure: 2.0 ml of disinfectant was applied to dried virus film for 10 minutes at room temperature (23°C) (7 minutes exposure in plate + 3 minutes centrifugation in Sephadex gel filter).

e. Test Samples: Direct Multipurpose Cleaner EPA Req. No. 777-66

Lot No. B7092D

Lot No. B7196D

Date Sample

11-24-87

Received:

Test Dates:

03-14-88 to 04-13-88.

f. Dilution: None (undiluted)

- g. Host Infection & Virus assay: Polybrene-treated MT2 T-cells were inoculated and incubated for 7 days at 37°C for virus infection. Primary virus infection was scored by lytic cytopathic effect (CPE). H-9 T-cells were also inoculated and monitored for virus infection by the antigen capture (ELISA) method for up to 28 days.
- h. Neutralizer/Diluent: Sephadex gel filtration was employed for neutralization and filtrates were diluted in RPMI-1640 containing 10% fetal bovine serum.

i. Results:

	Disinfectant Exp	osure		I	D-50/LD-50	(-Log 10)
<u>Test Sample</u>	<u>Temperature</u>	Time	Organic Soil	Hard Water	B7092D	B7196D
Virus Control	NA	NA	10% Serum	NA	7.67	7.67
Virus + Non- Virucidal Disinfectant	20-25°C	10 Minutes	# 12 m	11	6.50	6.50
Virus + Disinfectant	20-25°C	10 Minutes	П	None	3.50	3.50
Toxicity Control	NA	NA	NA.	TT.	3.50	3.50
Log Reduction	20-25°C	10 Minutes	10% Serum	П	3.00	3.00

NA = Not Applicable

j. Conclusions: The data meet the requirements for demonstrating virucidal performance of the product against HIV-1 in the presence of moderate amount of organic soil (10% blood serum) when used undiluted for a contact time of 10 minutes at room temperature (20-25°C).

EFFICACY EVALUATION AND TECHNICAL MANAGEMENT SECTION EFFICACY REVIEW-II

Antimicrobial Program Branch

EPA Reg. No. or File Symbol	777–66
Date Division Received	07-05-88
MRID No.(s)	406636-01
Product Manager No.	PM-31 (Lee)
Product Name Lysol Brand Dis	infectant Direct Multi-Purpose Cleaner
Company Name Lehn & Fink Pro	ducts, Division of sterling Drug Inc.,

202.0 Recommendations

202.1 Efficacy Supported By The Data

The submitted data meet the requirements to support effectiveness of the product as a virucide against HIV-1 (AIDS virus) when used as an undiluted solution on hard, non-porous surfaces in the presence of a moderate amount of organic soil (10% blood serum) for a contact time of 10 minutes at room temperature (20-25°C).

203.0 Labeling:

Label reference to "HIV-1 (Causative Agent of AIDS)" must be revised to read "HIV-1 (AIDS virus)".